

What is claimed is:

1. A grommet water-proofing method in which a grommet through which a wire harness is passed is filled with a sealing agent, comprising the steps:

clamping a wire harness between a first and a second clamping portion at the front and rear of the grommet;

rotating a first clamping portion to twist said wire harness in a first direction;

with said first clamping portion being immovable in a longitudinal direction of the wire harness, inverting said first clamping portion in a second direction opposite to said first direction so that the wire harness is loosed within said grommet; and

filling the grommet with a sealing agent.

2. A grommet water-proofing method in which a grommet through which a wire harness is passed is filled with a sealing agent, comprising the steps:

clamping a wire harness between a first and a second clamping portion at the front and rear of the grommet;

shifting said first clamping portion in a direction of compressing the wire harness so that the wire harness is loosed within said grommet; and

filling the grommet with a sealing agent.

3. An wire-harness loosening jig comprising:  
a fixing side clamping portion for clamping one  
end of a wire harness;  
a guide rail extending in a longitudinal  
direction of said wire harness;  
a bearing slidably engaged with said guide rail;  
a lock portion for locking said bearing to said  
guide rail;  
a circular rotating member, supported by said  
bearing, for rotating said wire harness in a  
peripheral direction of said wire harness; and  
a movable-side clamping portion, integrally  
attached to said rotating member, for clamping the  
other end of said wire harness.

4. A wire harness loosening jig according to claim 3,  
wherein said rotating member has a spiral cam groove;  
and said bearing has an engagement protrusion to be  
engaged with the cam groove so that when the one  
clamping portion is inverted, the rotating member can  
move in the longitudinal direction of the wire  
harness.

5. A wire harness loosening jig according to claim 3,  
wherein said rotating member includes a ratchet gear  
and a pressing protrusion; and said bearing includes

a switch portion for engaging an engagement piece with said ratchet gear, said switching portion being changeable by said pressing protrusion so that said ratchet can operate in a direction of twisting said wire harness.

6. A wire harness loosening jig according to claim 4, wherein said rotating member includes a ratchet gear and a pressing protrusion; and said bearing includes a switch portion for engaging an engagement piece with said ratchet gear, said switching portion being changeable by said pressing protrusion so that said ratchet gear can operate in a direction of twisting said wire harness.

7. A wire harness loosening jig comprising:  
a fixing-side clamping portion for clamping one end of a wire harness;  
a guide rail extending in a longitudinal direction of said wire harness; and  
a movable-side clamping portion for clamping the other end of said wire harness.

8. A wire harness loosening jig according to claim 7, wherein said movable-side can be moved towards the fixing-side clamping portion by a driving mechanism.